

R307. Environmental Quality, Air Quality.

R307-313. VOC and Blue Smoke Controls for Hot Mix Asphalt Plants

R307-313-1. Purpose.

Rule R307-313 establishes emission controls and work practice standards for the emissions of blue smoke and associated volatile organic compounds (VOC) from hot mix asphalt (HMA) plants and associated oil storage tanks.

R307-313-2 Applicability.

Rule R307-313 applies to stationary HMA plants and their associated oil storage tanks located in Salt Lake, Davis, Weber, and Tooele counties with an annual production level greater than or equal to 75,000 tons of hot mix asphalt per rolling 12-month period.

R307-313-3 Definitions.

Terms defined in Section 307-312-3 are incorporated by reference

"Blue smoke" means a mixture of visible emissions and VOC emissions from HMA plants that results from the process of mixing hot oil with aggregate.

"Dryer" means a piece of machinery where aggregate is dried and heated during the asphalt manufacturing process, usually drum or cylinder shaped. Synonymous with drum mixer.

"Load out" means an area used for the loading of material from a silo into a truck or train or other means of transport. It is often located under or next to silos.

"Silo" means a tower used to store material.

"Storage tank" means any storage vessel where oils are heated and stored before mixing with aggregate.

R307-313-4. Blue Smoke Emissions from HMA Plant.

1. The owner or operator shall install emission capture and enclosure systems that capture and reduce blue smoke emissions from dryers, conveyors, silos, and load out areas. The owner or operator shall operate emission capture systems at all times during the production of hot mix asphalt products. Emission capture and enclosure systems shall also reduce VOC emissions from captured blue smoke with a control efficiency of at least 50% as verified by the manufacturer of control systems upon installation.

2. Visible emissions from emission points subject to Rule R307-313-4 shall not exceed opacity limits of 10% at emission points covered by Section R307-313-4 as measured according to 40 CFR 60, Appendix A, Method 9.

R307-313-5. VOC Emissions from Storage Tanks.

1. Heated storage tanks used for storing oils before mixing with aggregate shall be equipped with VOC capture and control equipment such

as a condenser and a carbon-filled vessel, with a control efficiency of at least 70% as verified by the manufacturer of control systems upon installation.

2. Emission points subject to R307-313-5 shall operate with no visible emissions as measured according to 40 CFR 60, Appendix A, Method 9.

R307-313-6. Recordkeeping.

1. The owner or operator shall

a. Retain a copy of the manufacturer's recommendations for proper operation, emission capture percentage rates, and maintenance of equipment covered by Rule R307-313

b. Establish a maintenance plan based upon these recommendations

c. Maintain records showing proper operation and maintenance of equipment in accordance with the manufacturer's recommendations for blue smoke controls referenced in Section R307-313-4 and oil storage tank controls as referenced in Section R307-313-5.

2. These records shall be stored for at least 2 years and shall be made available to the director upon request.

R307-313-7. Compliance Schedule.

The owners and operators of the HMA plants subject to Rule R307-313 shall comply with R307-313 by May 1, 2023.

KEY: air pollution, volatile organic compounds, VOC, hot mix asphalt, asphalt, aggregate, blue smoke

Date of Enactment or Last Substantive Amendment:

Authorizing, and Implemented or Interpreted Law: 19-2-104